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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/509,641	09/29/2004	Christian Drohmann	53383	4300
26474 NOVAK DRU	7590 07/12/2007 ICE DELUCA & QUIGG,	LLP	EXAM	INER
1300 EYE STI	REET NW		POPOVICS,	ROBERT J
WASHINGTO	VEST TOWER DN, DC 20005		ART UNIT	PAPER NUMBER
			1724	
			MAIL DATE	DELIVERY MODE
			07/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/509,641	DROHMANN ET AL.			
		Examiner	Art Unit			
		Robert J. Popovics	1724			
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the	correspondence address			
	ORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 MONTH	1/S) OR THIRTY (30) DAVS			
WHICE - Extended after a	CHEVER IS LONGER, FROM THE MAILING D. msions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. D period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be the will apply and will expire SIX (6) MONTHS from the application to become ABANDON	N. imely filed The mailing date of this communication.			
Status						
1)⊠	Responsive to communication(s) filed on 4/23	/07, 1/29/07 and 12/18/06.				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	153 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) 11-27 is/are pending in the applicatio	n.				
•	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>11-27</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
9)	The specification is objected to by the Examine	er.				
	The drawing(s) filed on is/are: a) acc		Examiner.			
	Applicant may not request that any objection to the					
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ol	bjected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action or form PTO-152.			
Priority (ınder 35 U.S.C. § 119	•				
	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
	1. Certified copies of the priority documents	s have been received.	·			
	2. Certified copies of the priority documents have been received in Application No.					
	3. Copies of the certified copies of the prior	rity documents have been receiv	red in this National Stage			
	application from the International Bureau	• • • • • • • • • • • • • • • • • • • •				
* 5	See the attached detailed Office action for a list	of the certified copies not receive	ed.			
	·					
			•			
Attachmen	• •					
	e of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail D 5) Notice of Informal I				
Pape	Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on **December 18, 2006** has been entered.

Information Disclosure Statement

The information disclosure statement filed **December 18**, **2006** fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

The information disclosure statement filed **December 18, 2006** fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent/document listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

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Official Notice of the following is taken:

- 1) Polystyrene is a well known conventional filtration aid.
- 2) PVPP is a well known conventional filtration aid and/or stabilization agent

Official Notice

- 3) **Compounding** is a well known conventional technique for mixing polymers and/or/with other materials. Conventionally known twin screw extruders are often used to compound or mix polymers and/or/with other materials.
- 4) **Popcorn polymerization** is a well known conventional polymerization method in which the growing polymer chains are crosslinked to one another. The resultant popcorn polymers are generally insoluble and scarcely swellable.
 - 5) Those skilled in the art are aware of Official Notice statements 1-4.

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Claim Rejections - 35 USC § 103

Claims 11-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Klein (US 4,344,846) and Butterworth (US 3,958,023). Butterworth discloses the use of PVPP admixed with conventional filter aids to treat liquids. (see column 2 and claims 1 and 4 of Butterworth). Butterworth does not expressly disclose polystyrene. Klein discloses the use of polystyrene as a filtration aid. It would have been obvious to one skilled in the art to mix (i.e., compound) polystyrene with PVPP in order to practice the invention of Butterworth. The Official Notice statements made above are relied on to the extent that they are needed. The various claimed percentages are parameters that would have been routinely optimized/manipulated by those skilled in the art.

Response to Amendment

The Declarations filed under 37 CFR 1.132 filed **December 18, 2006** are noted. It is unclear why they were provided, or what they are intended to establish.

Any inquiry concerning this communication should be directed to Robert J. Popovics at telephone number (571) 272-1164.

CHX 2.

Robert James Popovics Primary Examiner Art Unit 1724